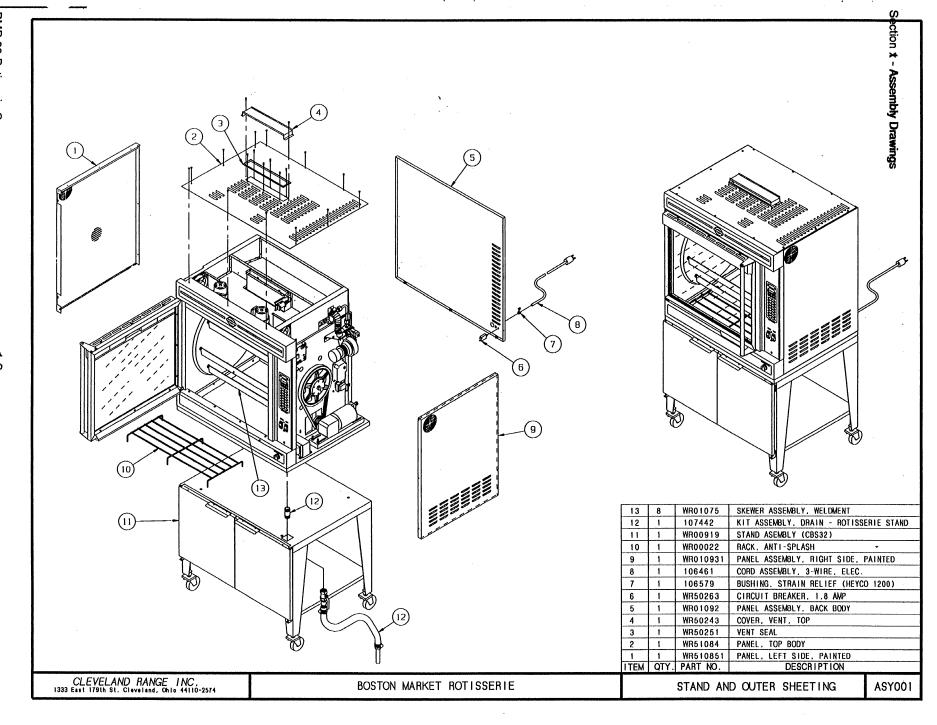
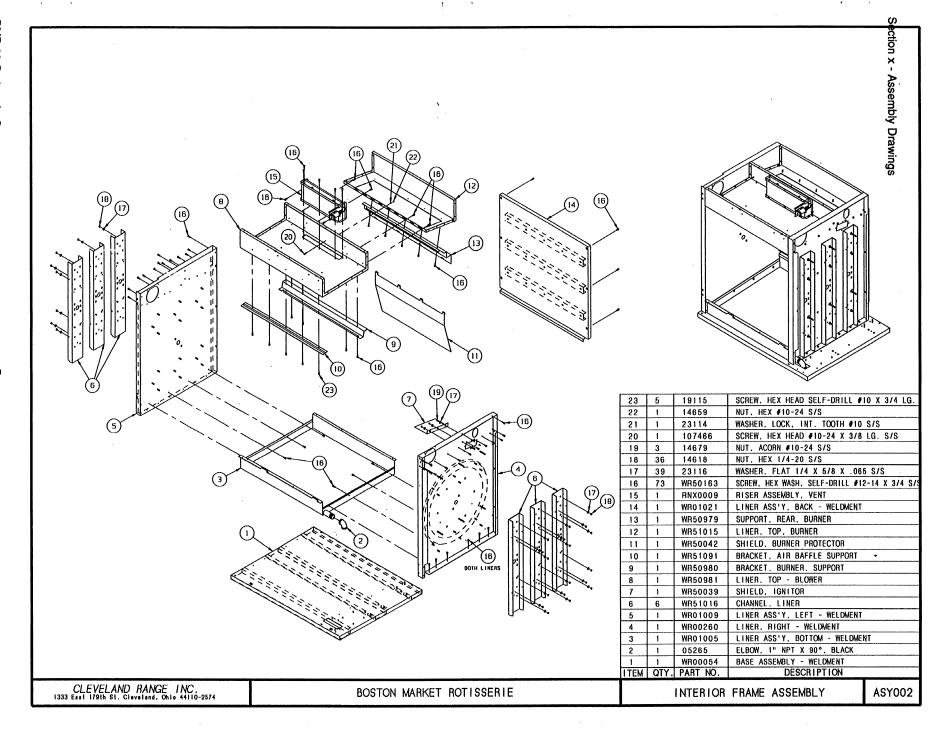
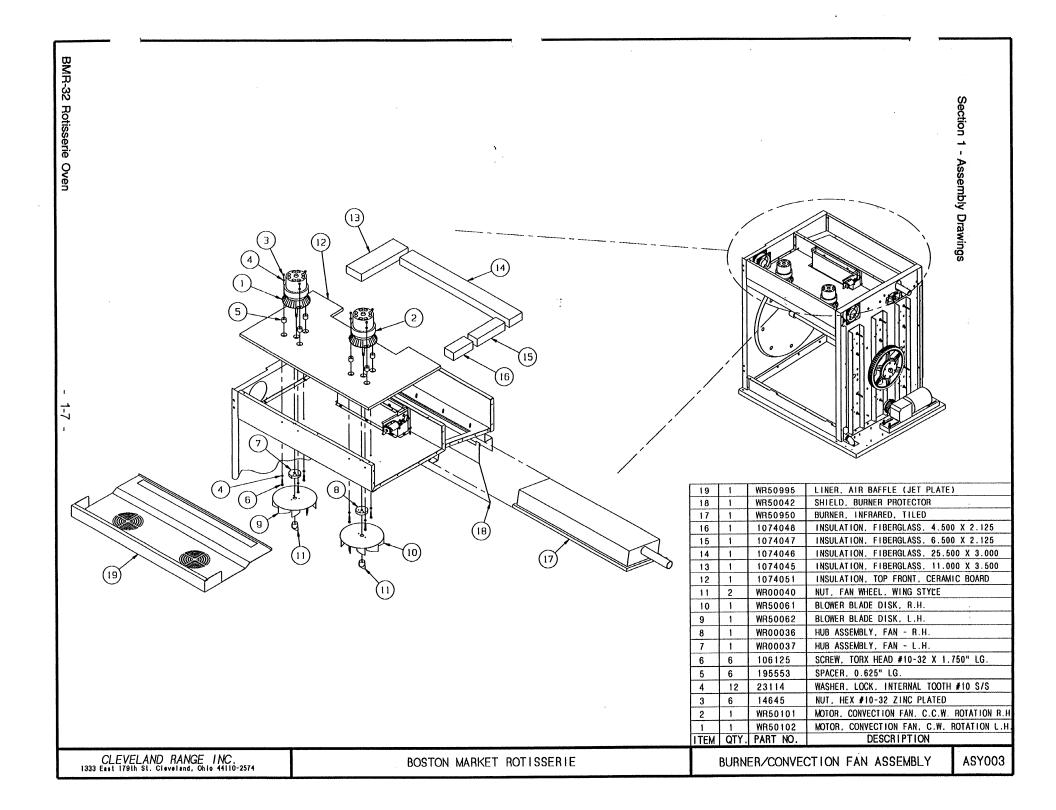
## Cleveland Parts Manual

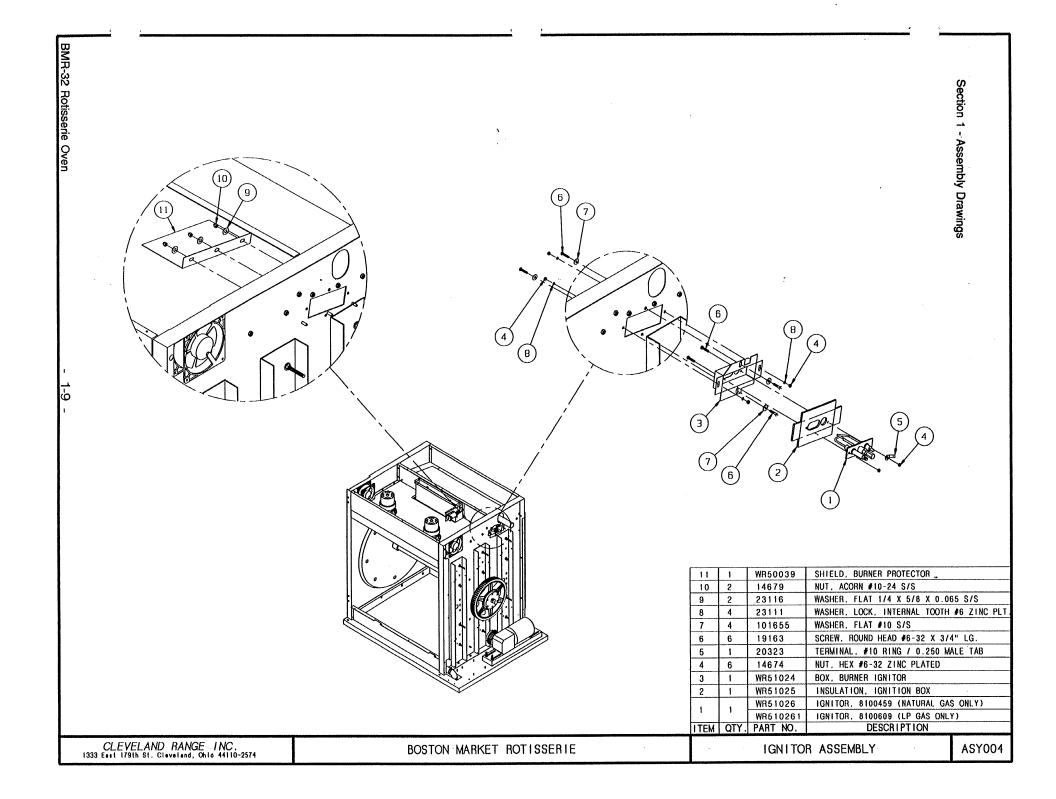
## **BMR-32 ROTISSERIE CONVECTION OVEN**

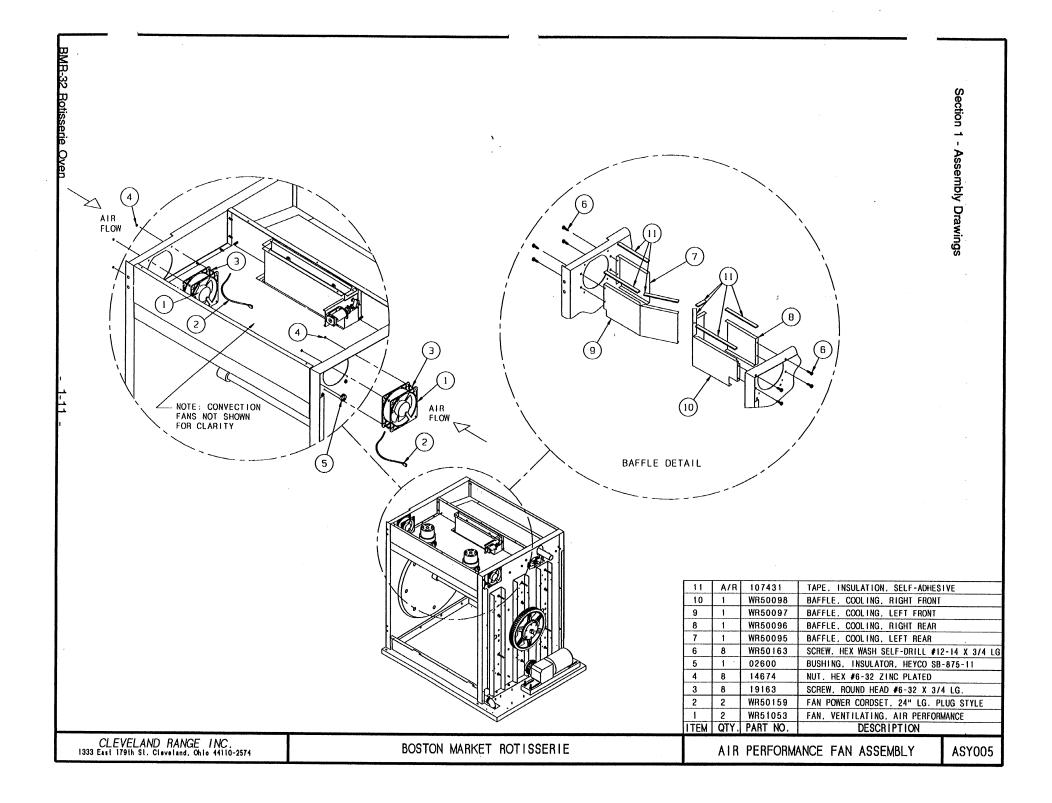


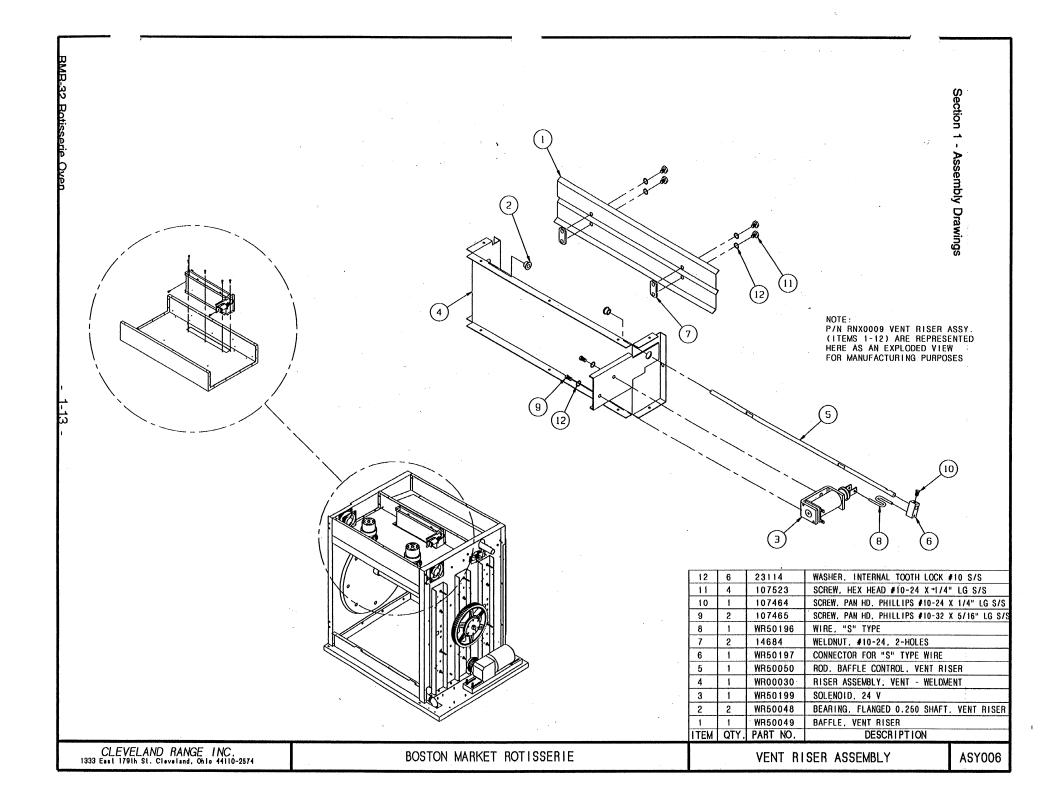












Cleveland Range Inc.

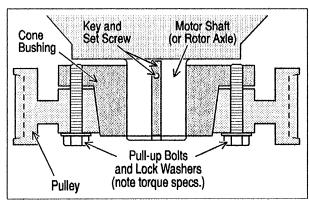
This drawing shows exploded views of the rotisserie drive system, along with various assembly details of the axle and drums, the sun and planetary gears, and the motor drive system.

The axle (#4) turns in two bearings (#31) mounted to each side wall; note the gaskets (#33) used to seal the bearings. The idler and drive end drums (#2 and #8) are axially aligned with the axle by means of hub slots that engage with spring pins (#3) pressed through the axle. The drums are then secured to the axle by cap screws (#1) that engage a flat machined into the axle (see also details A and B). These cap screws are specially machined and plated for this purpose -DO NOT SUBSTITUTE.

The drums occasionally may need to be moved inwards on the axle when cleaning the oven. When returning the drums to proper position, make sure the cap screws line up with the flats on the axle, and the slots in the hubs engage the spring pins before tightening the cap screws. Also, when returning the drive end drum assembly to position, rotationally jog the drum so the planetary gears (#10) mesh with the sun gear (#13; see detail C), then engage the hub with the right-hand spring pin. No lubrication is required for the sun and planetary gears.

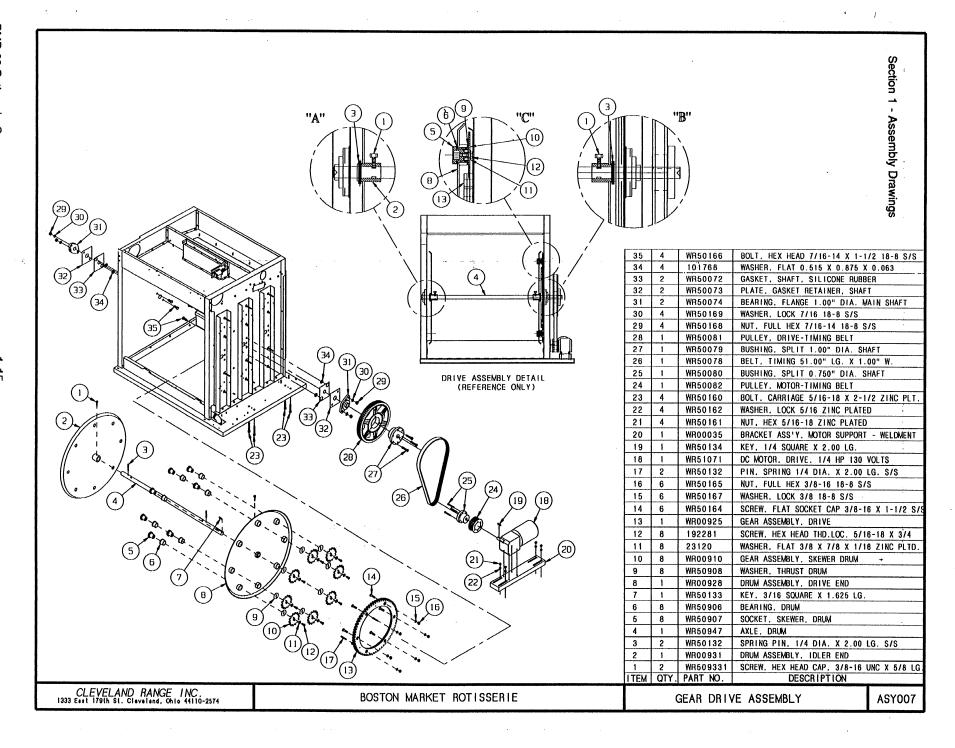
Special tapered-cone bushings (#25, 0.750-inch shaft, and #27, 1.000-inch shaft) are used to secure the drive pulleys (#24 and #28) to the gearmotor shaft (#18) and the rotisserie axle (#4). The bushing is assembled to the shaft using a

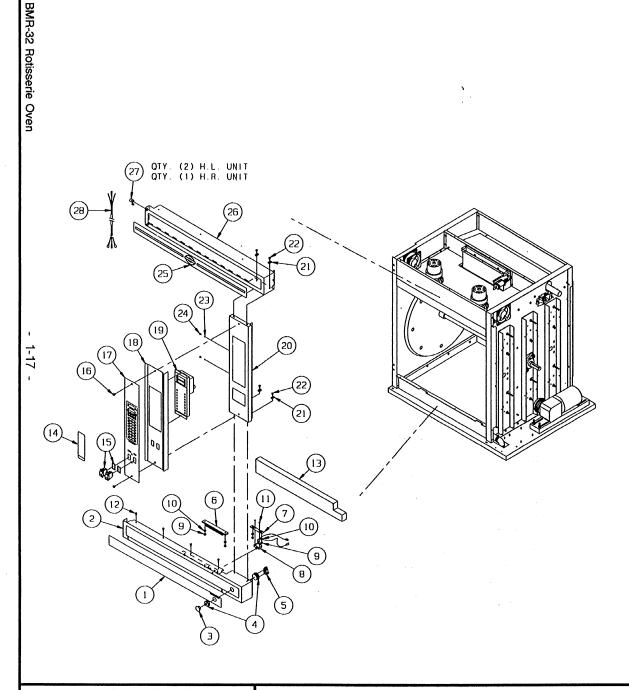
keyed/slot and set screw (screw "hand tight" only). The pulleys are then slid over the tapered bushing cones (all cone surfaces must be clean and dry). When assembling, align the throughdrilled bolt holes in the pulley with the drilled-and-tapped holes in the bushing. Pull-up bolts (with lock washers) are then inserted through the pulley's drilled holes, threaded into the bushing's tapped holes, and tightened alternately and evenly to the following torques: a) the smaller, 0.750 shaft: 108 in-lbs.; b) the larger, 1.000-inch shaft:



360 in-lbs. (To remove the pulleys, the pull-up bolts must be removed and threaded into the pulley's tapped holes and brought to bear on the bushing's flange. The cone grip is then broken by alternately tightening the bolts.)

Adjust the tension of the drive belt (#26) so that you can twist the belt, by hand, no more than half a twist. Tension is adjusted by sliding the motor support bracket in its slots and tightening the hex nuts (#21).





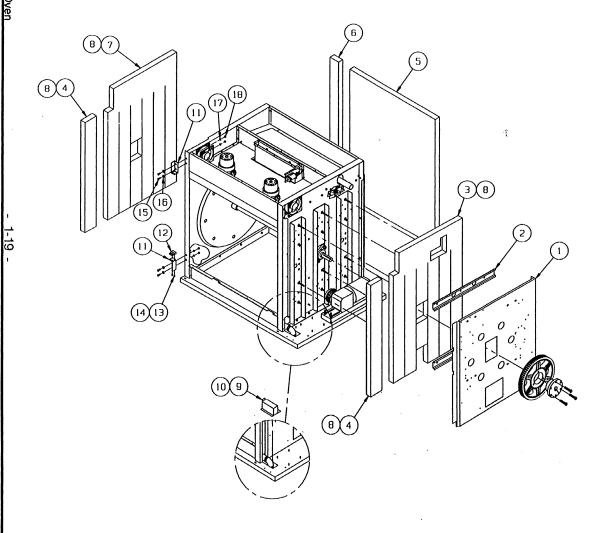
28	1	WR50267	CORD, LAMP, LIGHTING, H.R.	
	'	WR50266	CORD, LAMP, LIGHTING, H.L.	
27		WR50262	BUSHING, STRAIN RELIEF, RIGH	T ANGLE
26	1	WR50261	BODY, TOP FRONT H.R.	
20	'	WR50260	BODY, TOP FRONT H.L.	
25	1	WR50054	LABEL, TOP PANEL	
24	2	14659	NUT, HEX #10-24 S/S	
23	2	23114	WASHER, LOCK, INTERNAL TOOTH #10 S/S	
22	4	101231	SCREW. TRUSS HEAD #10-24	
21	4	106699	NUT. SLIP-ON #10-24	
20	1	WR00237	SUPPORT ASSEMBLY, CONTROL PANEL	
19	1	WR50092	COMPUTER. VERTICAL MODULAR	
18	1	WR00255	PANEL ASSEMBLY, CONTROL - WELDMENT	
17	1	WR50053	LABEL, CONTROL PANEL	
16	2	191761	SCREW, TRUSS HEAD 1/4-20 X 1/2 S/S BLACK	
15	2	106871	SWITCH, ROCKER, DPDT, ON/OFF	, RED
14	1	WR50088	LABEL, MENU INSERT	
13	1	1074802	INSULATION, BOTTOM FRONT 4 X 30 X 1.500	
12	4	101231	SCREW, TRUSS HEAD #10-32 X 1/2 LG. S/S	
11	2	105449	SCREW, TRUSS HEAD #6-32 X 0.312 LG. S/S	
10	8	23116	WASHER, FLAT 1/4 X 5/8 X+.065 THK. S/S	
9	4	14672	NUT. HEX LOCK ELASTIC #10-32	
8	1	WR51051	SWITCH, MICRO, DOOR .	
7	-	WR50021	BRACKET, MICRO SWITCH MOUNTING	
6	1	WR50976	MAGNET, DOOR	
5	1	102533	BLOCK, CONTACT	
4	1	WR51058	SWITCH, PUSHBUTTON OPERATOR	
3	1	WR50179	BUTTON. PUSH 1-3/8" MUSHROOM HEAD	
2	1	WR00259	BODY ASSY, FRONT LOWER, WELD	MENT, H.R.
		WR00258	BODY ASSY, FRONT LOWER, WELD	MENT. H.L.
1	1	WR50052	LABEL. BOTTOM PANEL. ROTISSERIE	
ITEM	QTY.	PART NO.	DESCRIPTION	
EDONT DANIEL ADDENDLY ADVOCE				

CLEVELAND RANGE INC.

BOSTON MARKET ROTISSERIE

FRONT PANEL ASSEMBLY

**ASY008** 



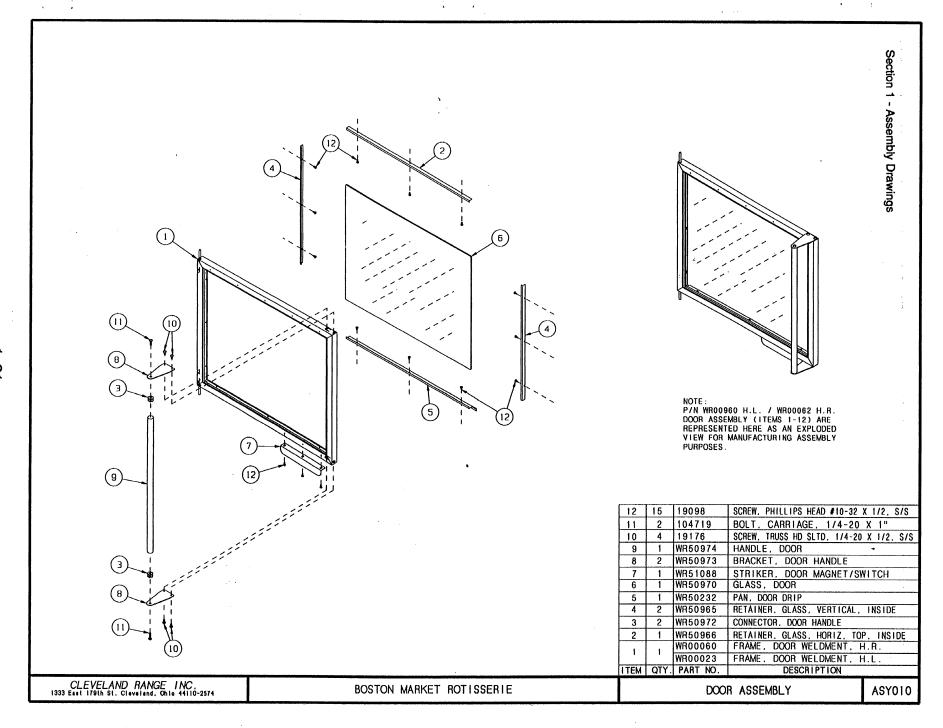
18	4	14618	NUT, HEX 1/4-20 S/S	
17	4	23105	WASHER, LOCK 1/4" KATLINK STYLE S/S	
16	4	23116	WASHER, FLAT 1/4 X 5/8 X 0.065 THK S/S	
15	4	19170	SCREW, HEX HEAD 1/4-20 X 0.625 LG S/S	
14	A/R	104146	ADHESIVE. LOCKTITE THREAD LOCK #222	
13	2	107524	SCREW. RD HD SLTD #10-32 X 0.375 LG S/S	
12		WR50239	HINGE, BOTTOM PAD, DOOR H.R.	
12		WR51097	HINGE, BOTTOM PAD, DOOR H.L.	
11	2	WR50240	BRACKET ASSY. HINGE TOP & BTM., DOOR H.R.	
''	2	WR50070	BRACKET ASSY. HINGE TOP & BTM., DOOR H.L.	
10	A/R	00932	SEALANT, RTV, DOW CORNING 732, ALUMINUM	
9	1	WR50250	COVER, DRAIN	
8	A/R	107431	TAPE, INSULATION, SELF-ADHESIVE	
7	1	1074042	INSULATION. LEFT. FIBERGLASS 1-1/2" DP.	
6	1	1074804	INSULATION, BACK 3 X 39 X 1 500	
5	. 1	1074803	INSULATION, BACK 30 X 39 X 1.500	
4	2	1074043	INSULATION, FIBERGLASS 33.000 X 4.000	
3	1	1074041	INSULATION, RIGHT, FIBERGLASS 1-1/2" DP.	
2	2	WR50035	CHANNEL SUPPORT, INSULATION RETAINER	
1	1	WR50264	PANEL, INSUL. RETAINER/COMPONENT MOUNT	
ITEM	QTY.	PART NO.	DESCRIPTION	

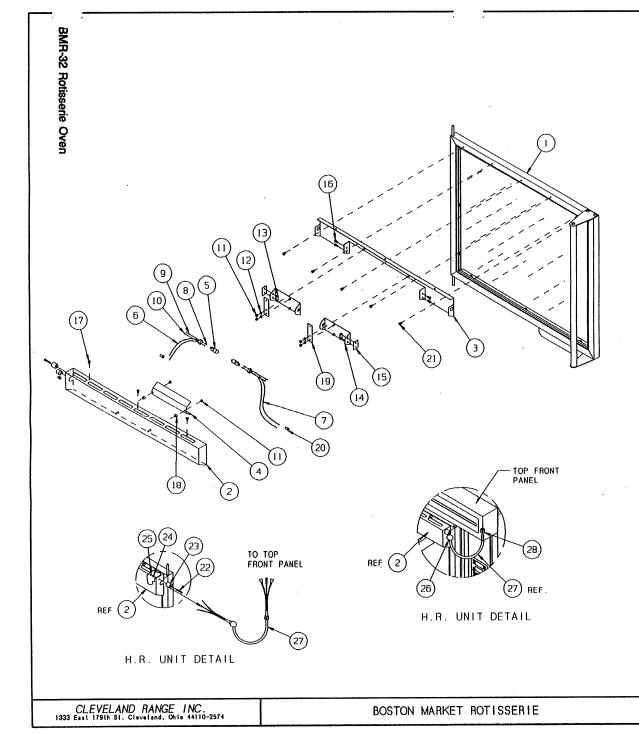
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BOSTON MARKET ROTISSERIE

INSULATION AND DOOR HINGE ASSEMBLY

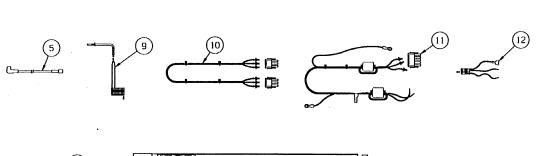
ASY009

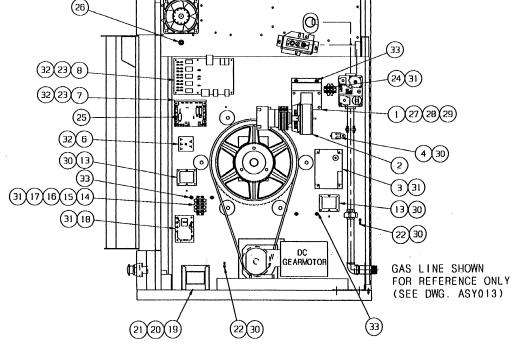




,				
28	-	106579	BUSHING. STRAIN RELIEF. H	IEYCO
27	1	WR50267	CORD, LAMP, LIGHTING, H.F	١.
"		WR50266	CORD, LAMP, LIGHTING, H.L	
26	-	WR50262	BUSHING, STRAIN RELIEF, R	IGHT ANGLE
25	1	14598	NUT, HEX #8-32	
24	1	102641	WASHER, SPLIT LOCK #8	
23	1	107313	BUMPER, RUBBER	
22	1	19150	SCREW, ROUND HEAD #8-32 >	( 1.250 LG.
21	5	19098	SCREW, TRUSS HEAD #10-32	X 1/2 LG.
20	2	107459	CONNECTOR. WIRE NUT (2) #22 O	R (3) #16
19	2	WR502261	MOUNT, VIBRATION, LIGHTIN	IG 1 X 3
18	2	195554	SPACER, 1/4 X 1/2 X 0.243 LG.	ALUMINUM
17	3	101231	SCREW. TRUSS HD. PHILLIPS #10	
16	4	19168	SCREW, PAN HEAD #10-24 X	1/2
15	2	WR50226	MOUNT, VIBRATION, LIGHTING 1	
14	2	WR00227	MOUNT, ELASTIC, LAMP WELD	
13	2	14684	NUT, WELD #10-24 W/ 2 HOL	.ES
12	4	101655	WASHER, FLAT #10 S/S	
11	6 -	104616	NUT. ELASTIC LOCK #10-24	
10	4	WR50153	NUT. HEX #4-40. ZINC PLATED	
9	4	WR50154	WASHER, INTERNOAL TOOTH #	14
8	4	WR50152	SCREW, TRUSS HD. #4-40 X	
7	1	WR501211	SOCKET. 2 PIN 250V 12A 2	8" LEADS
6	1	WR50121	SOCKET, 2 PIN 250V 12A	2" LEADS
5	2	WR50117	LAMP, HALOGEN BULB, BI-PIN, 1	00W. 24V
4	1	WR50120	REFLECTOR, LAMP	
3	1	WR00254	BRACKET, WELDMENT, LAMP N	<i>I</i> OUNT
2 ·	1	WR002571	SHIELD, HEAT, WELDMENT, F	PAINTED H.R
		WR002561	SHIELD, HEAT, WELDMENT, F	PAINTED H.L
1	1	WR00062	DOOR ASSEMBLY, H.R.	
		WR00960	DOOR ASSEMBLY, H.L.	
ITEM	QTY.	PART NO.	DESCRIPTION	
DOOR LIGHTING ASSEMBLY ASYOTI				

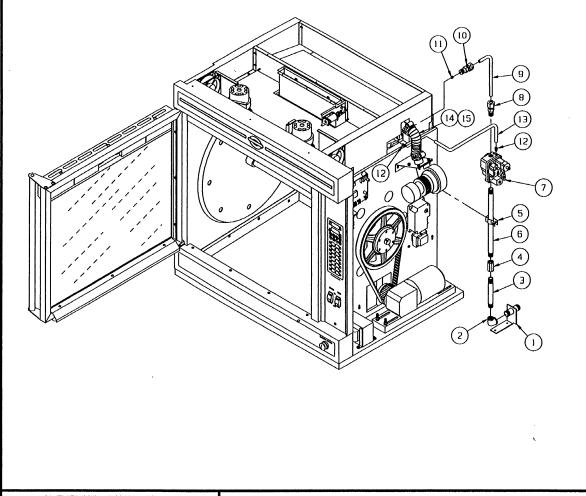
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1333 East 179th St. Cleveland, Ohio 41110-2574





BOSTON MARKET ROTISSERIE

33	8	WR50163	SCREW, HEX WASH. SELF-DRILL	12-14 X 3/4
32	9	106125	SCREW. TORX SLOT PAN HEAD #10	)-32 X 3/4
31	10	106128	SCREW, TORX SLOT PAN HEAD, #6	3-32 X 1
30	7	106123	SCREW. TORX SLOT PAN HEAD. #	10-32 X 1/2
29	4	19170	SCREW. HEX HEAD 1/4-20 X 5/8	\$/\$
28	4	14618	NUT. HEX 1/4-20 S/S	
27	4	23105	WASHER, LOCK 1/4" KATLINK ST	/LE. \$/\$
26	1	WR50201	FITTING, 3/16T X 1/4NPT STR.	(3/16 PROBE)
25	1	WR50189	FUSE. 12 AMP (ABC12)	
24	1	44168	TERMINAL BLOCK ASSY. 2-POLE	
23	8	107313	BUMPER, RUBBER 3/4 DIA. X 0.	781 LG
22	2	20333	TERMINAL, RING, #8, 16-14 AWK	3
21	4	14659	NUT, HEX #10-24 S/S	
20	4	23114	WASHER, LOCK INTERNAL TOOTH #	F10 S/S
19	1	WR50099	TRANSFORMER, LIGHTS 120V TO 2	22V @ 200W
18	1	WR50191	TIMER, 1.5 SECOND DELAY, 120	VAC
17	5	20326	TERMINAL CONNECTOR .032 X .2	50. MALE 45°
16	6	20325	TERMINAL CONN. MALE STR032	2 X .250
15	1	20327	TERMINAL CONNECTOR .032 X .21	50. MALE 90°
14	1	02192	RELAY, TERMINAL BLOCK, 4 TERM	AINAL :
13	2	20528	TRANSFORMER, SPARK IGNITION SUP	PLY. HONEYWELL
12	1	WR50111	CABLE. MOTOR CONTROL. ADAPTER	
11	1	WR50110	HARNESS, POWER SUPPLY	
10	1	WR50109	HARNESS, COMMUNICATION	•
9	1 .	WR50091	PROBE. THERMISTOR (W/LEADS &	CONNECTOR)
8	1	WR50090	BOARD ASSEMBLY, R.I.B.	
7	1	WR50037	PC BOARD ASSEMBLY, DC DRIVE	
6	1	WR50106	TIMER, 30 MIN. FIXED DELAY	
5	1	WR50100	IGNITION CABLE ASSEMBLY	
4	i	WR51047	BUZZER, MIMI - 24V CLASS B	
3	H	107494	MODULE, CONTROL IGNITION, CHAN	NEL PRODUCTS
2	H	1074951	BLOWER ASSY, COMBUSTION FAN	
1	1	WR01027	and the second of the second o	
		PART NO.		
DRIVE CONTROL ASSEMBLY ASY012				



15	2	102018	CLAMP, HOSE, WORM DRIVE
14	1	WR51029	HOSE, HIGH TEMP, REINFORCED
13	1	WR50178	TUBE. 1/4" GAS LINE (VALVE TO IGNITOR)
12	2	06245	FITTING. COMP. 1/4T X 1/8 NPT. BREAK AWAY FÉRRULE
1.1	1	WR50176	ORIFICE, GAS #26 DRILL HOLE
10	1	WR50175	FITTING, COMP. 1/4 NPT X 1/2 T, TAP 11/32 NS
9	1	WR50177	TUBE, 1/2" DIA. X 90° - GAS LINE .
8	1	06206	FITTING. COMPRESSION 3/4" NPT X 1/2 TUBE
7	-	1057821	VALVE. GAS. LP GAS
		105782	VALVE, GAS, NATURAL GAS
6	1	14292	NIPPLE, 1/2" NPT X 14" LG. BLACK
5	1	WR50188	CLAMP, 3/4" PIPE
4	1	21302	UNION COUPLING, 1/2" NPT BLACK
3	1	14339	NIPPLE, 1/2" NPT X 6" LG. BLACK
2	1	05271	ELBOW. 1/2" X 3/4" BLACK
1	1	WR00042	BRACKET ASSEMBLY, 3/4" GAS PIPE, WELDMENT
ITEM	QTY.	PART NO.	DESCRIPTION

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1333 East 179th St. Cleveland, Ohio 44110-2574

BOSTON MARKET ROTISSERIE

GAS PLUMBING ASSEMBLY

ASY013